DAVID STROHMAIER

Computer Lab \diamond University of Cambridge \diamond Cambridge CB3 0FD 07949 \cdot 143 \cdot 309 \diamond davidstrohmaier92@gmail.com

AREAS OF RESEARCH

Philosophy of Al; Natural Language Processing; Philosophy of Social Science

SPECIALISATION

Lexical Semantics; Social Ontology; Decision Theory

WORK EXPERIENCE

2019-Ongoing	Research Associate.	University of Cambridge.	Department of Computer

Science and Technology. ALTA Institute.

EDUCATION

2023-Ongoing	PhD in Computer Science. University of Cambridge (Darwin College).
2018-2019	MPhil in Advanced Computer Science. Awarded with Distinction. University
	of Cambridge (Darwin College).
2015-2018	PhD in Philosophy. University of Sheffield.
2014-2015	MA in Philosophy. University of Sheffield.
2012-14	BA in Philosophy and Sociology. Grade: 1.3. University of Göttingen.
2011-14	BA in Sociology. Grade: 1.3. University of Göttingen.

RESEARCH VISITS

2018	Research visit at the London School of Economics. Host: Christian List.
	Duration: 1 trimester.
2017	Research visit at Tufts University. Host: Brian Epstein. Duration: 1 semester.
2016	Research visit at the University of Münster. Host: Michael Quante.
2016	Internship at the Hamburg Institute for Social Research (HIS). Duration: 1
	month.

PUBLICATIONS

$D \sim \sim$	~
DUU	N.S

2024 "Preference Change". With: Michael Messerli. Elements in Decision Theory and Philosophy. Cambridge University Press.

Peer-Reviewed Pub	lications
2025	"DLU: Dictionary Look-Up Data and Prediction". First author. With Gladys
	Tyen, Hongyi Gu, Diane Nicholls, Zheng Yuan, and Paula Buttery. In: <i>CoNLL</i>
2025	"Contrafactives, Learnability, and Production". First author. With Simon
	Wimmer. In: ELM3
2024	"Semantic Error Prediction: Estimating Word Production Complexity". First author. With Paula Buttery. In: <i>NLP4CALL 2024</i>
2023	"Contrafactives and Learnability: An Experiment with Propositional Con-
	stant". With Simon Wimmer. In: Logic and Engineering of Natural Language Semantics
2022	"Contrafactives and Learnability". With Simon Wimmer. In: Amsterdam
	Colloquium
2022	"A Category Theory Framework for Sense Systems". With Gladys Tyen.
	Equal Contribution. In: Globalex Workshop on Linked Lexicography within
	the 13th Language Resources and Evaluation Conference
2021	"Organisations as Computing Systems". In: Journal of Social Ontology.
2021	"Ontology, Neural Networks, and the Social Sciences". In: Synthese.
2021	"Cambridge at SemEval-2021 Task 1: An Ensemble of Feature-Based and
	Neural Models for Lexical Complexity Prediction". Third author. With Zheng
	Yuan and Gladys Tyen. In: Proceedings of the 15th International Workshop
	on Semantic Evaluation (SemEval-2021) (inclusive peer-review)
2021	"Cambridge at SemEval-2021 Task 2: Neural WiC-Model with Data Aug-
	mentation and Exploration of Representation". Second author. With Zheng
	Yuan. In: Proceedings of the 15th International Workshop on Semantic Evalu-
	ation (SemEval-2021) (inclusive peer review, model achieved best results on
	subset of tracks)
2020	"Social-Computation-Supporting Kinds". In: Canadian Journal of Philosophy.
2020	"SeCoDa: Sense Complexity Dataset". First author. With: Sian Gooding,
	Shiva Taslimipoor, and Ekaterina Kochmar. In: 12th International Conference
	on Language Resources and Evaluation (LREC 2020). (peer-review non-
	blind.)
2020	"Two Theories of Group Agency". In: <i>Philosophical Studies</i> .
2018	"Group Membership and Parthood". In: Journal of Social Ontology.
Book Chapters	
2015	"Die Entstehung des Staates aus der Geschichte der Gewalt". In: Den Staat
	Zerschlagen! Anarchistische Staatsverständnisse. Editor: Peter Seyferth.
	Nomos Verlag. 65-84.
Online Essays	
2017	"Gruppen als Akteure". [Groups as Agents]. Soziopolis.de.

Book Reviews

2021 Review of Richard Pettigrew's Choosing for Changing Selves. In: The Philo-

sophical Quarterly.

2019 Review of Richard Bradley's Decision Theory with a Human Face. In: Philo-

sophical Psychology.

WORK IN PROGRESS

Draft "Transformers Learning Contrafactives". With Simon Wimmer.

Draft "The Symbol Grounding Problem for Computer Science".

Preparation "The Definition of Word".

Preparation "Automatic Calibration of Discrimination for MCQ Items".

Preparation "A Corpus-Driven Comparison of Comprehension and Production Word

Difficulty".

TEACHING EXPERIENCE

2024-25	Supervision of MPhil thesis in Advanced Computer Science. University of
	Cambridge.
2023 & 25	Teaching assistant for "Introduction to Natural Language Syntax and Pars-
	ing", including covering of lectures. University of Cambridge.
2021-22 & 24	Supervision for Prolog course. Robinson College. University of Cambridge.
2017-18	Third-year BA/MA-Course: I, You, We. Designed and taught with James
	Lewis. Opportunity competitively awarded. University of Sheffield.
2016-17	Tutor for Paradox and Plurality. Zeno to Aristotle. University of Sheffield.

VISITED SUMMER SCHOOLS

2023	Groningen Spring School in Cognitive Modeling. Duration: 1 week.
2019	31st European Summer School in Logic, Language, and Information. Latvian

University. Duration: 2 weeks.

GRANTS, SCHOLARSHIPS, AND AWARDS

2024	Darwin Travel fund (£200) for attending a conference as a presenter.
2015-17	Multiple WRoCAH awards for travel (total: £5259.48).
2015-18	Arts and Humanities Research Council (AHRC) Competition Studentship
	for three years. Competitively warded via White Rose College of the Arts
	and Humanities (WRoCAH).
2018	Postgraduate Researcher Experience Programme (£500) for a research
	visit at the LSE.
2015	Award for best BA dissertation in the social sciences at the University of
	Göttingen (€250).
2013	Niedersachsenstipendium (€500, competitively awarded)
2011	Deutschlandstipendium (€3600, competitively awarded)

INVITED TALKS	
2025	Workshop: "Foreign language learning and proficiency-rated reading materials. University of Tübingen. Title: <i>The Read&Improve Dictionary Look-up Data</i> .
2025	Workshop: "Artificial Intelligence and Non-Human Entities: In Search of Synergies from Various Philosophical Debates". University of Heidelberg. Title: Neuronale Al und organisierte Gruppenakteure.
2025	Workshop: "How we do (not) talk about mistaken beliefs". University of Düsseldorf. Title: Experimenting with contrafactives: adjusting for empirically attested distributions
2024	Masterclass on Transformer Al model. University of Barcelona.
2022	Work in Progress Group. University of Dortmund. Title: <i>Commitment-based Preference Change</i> .
2021	Cognitive science talk. University of Sheffield. Title: <i>DL4ELSA</i> : <i>Deep Learning for Exploring Lexical Semantic Acquisition</i> .
2021	Philosophy & Al Workshop. Online. University of Leeds. Title: <i>Ontology, Neural Networks, and the Social Sciences</i> .

CONFERENCES AND WORKSHOPS (PEER-REVIEWED WITHOUT PROCEEDINGS)

2020	Social Ontology 2020. Online. Title: Social-Computation-Supporting Kinds.
2019	Socreal 2019. Sapporo. Title: There Are No Empty Groups.
2019	Social Ontology 2019. Tampere. Title: Computational Social Ontology.
2018	European Network for Philosophy of the Social Sciences (ENPOSS) Confer-
	ence 2018. Hannover. Title: Deep Cooperation.
2018	Social Ontology 2018. Boston. Title: Group Agency and Homuncularism.
2018	Foundations of Utility and Risk (FUR) Conference 2018. York. Title: Deep
	Cooperation.
2017	European Network for Philosophy of the Social Sciences (ENPOSS) Confer-
	ence 2017. Krakow. Title: Nested Groups. Membership and Parthood.
2017	European Network on Social Ontology (ENSO) V. Lund. Title: Nested Groups.
	Membership and Parthood.
2017	Cognition in Groups. Milan. Title: Group Agency and Homuncularism.
2016	Collective Intentionality X. The Hague. Title: A New Condition for Group
	Agency.
2016	3rd International Conference Economic Philosophy. Aix-en-Provence. Title:
	Corporations as Group Agents.
2015	Graduate Workshop on Kant and German Idealism. University of Warwick.
	Title: On the Relation between Kantian Theoretical Philosophy and the Phe-
	nomenology of Spirit.

ACADEMIC SERVICE

2022–Ongoing Chair of the Language Technology group meetings. ALTA institute. 2017–18 Treasurer of the White Rose Philosophy Postgraduate Forum.

2016–17 Organiser of the Social Norms and Obligation Workshop. University of

Sheffield. Funded by WRoCAH and the Mind Association.

REVIEWING

Reviewer for the Building Educational Applications workshop.
 Reviewer for the EMNLP Industry Track.
 Reviewer for the ACL Conference.

2021 Reviewer for the Journal of Artificial Intelligence Research.

2019 Reviewer for the *Journal of Social Ontology*.

ONLINE PRESENCE

Github: github.com/dstrohmaier **Website:** dstrohmaier.com

LANGUAGES

German (first language)

Prof. Ted Briscoe

MPhil Supervisor

ted.briscoe@mbzuai.ac.ae

MBZ University of Al

Department of NLP

Masdar City

Abu Dhabi

English (fluent) French (basic)

REFERENCES

Prof. Paula Buttery
Former PhD supervisor
paula.buttery@cl.cam.ac.uk
University of Cambridge
Computer Laboratory
45 Victoria Street
Sheffield S3 7QB
Prof. Brian Epstein
Host during research visit
brian.epstein@tufts.edu
Tufts University
Department of Philosophy
Miner Hall, Room 01
Medford, MA 02155

Dr. Luca Barlassina
Observed teaching
I.barlassina@sheffield.ac.uk
University of Sheffield
Department of Philosophy
45 Victoria Street
Sheffield S3 7QB

Dr. Yonatan Shemmer
Former second supervisor
y.shemmer@sheffield.ac.uk
University of Sheffield
Department of Philosophy
45 Victoria Street
Sheffield S3 7QB

Dr. Zheng Yuan
Collaborator & former colleague
zheng.yuan1@sheffield.ac.uk
University of Sheffield
School of Computer Science
Regent Court
Sheffield S1 4DP